INTERNATIONAL SEARCH REPORT

Interranal Application No PCT/IB2004/051966

CLASSIFICATION OF SUBJECT MATTER PC 7 G11B7/09 G11E ÎPC 7 G11B7/085 According to International Patent Classification (IPC) or to both national classification and IPC **B. FIELDS SEARCHED** Minimum documentation searched (classification system followed by classification symbols) IPC 7 G11B Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched Electronic data base consulted during the international search (name of data base and, where practical, search terms used) EPO-Internal, WPI Data, PAJ C. DOCUMENTS CONSIDERED TO BE RELEVANT Citation of document, with indication, where appropriate, of the relevant passages Relevant to claim No. Category 9 1,3-5. EP 0 478 314 A (INTERNATIONAL BUSINESS X 9-15 MACHINES CORPORATION) 1 April 1992 (1992-04-01) column 9, line 11 - line 36; figure 6 column 5, line 18 - line 21 column 8, line 21 - line 27 column 10, line 10 - line 31; figure 7 χ US 4 471 477 A (BIERHOFF ET AL) 1,2,9, 10,15 11 September 1984 (1984-09-11) 4-8, Υ abstract 10 - 14column 2, line 15 - line 28 column 6, line 4 - line 16 -/--Patent family members are listed in annex. Further documents are listed in the continuation of box C. X Special categories of cited documents: "I" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the "A" document defining the general state of the art which is not considered to be of particular relevance invention "E" earlier document but published on or after the international "X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone filina date "L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified) "Y" document of particular relevance; the claimed invention cannot be considered to involve an invention and the considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art. O document referring to an oral disclosure, use, exhibition or "P" document published prior to the international filing date but later than the priority date claimed *&* document member of the same patent family Date of the actual completion of the international search Date of mailing of the international search report 06/07/2005 27 June 2005 Authorized officer Name and mailing address of the ISA European Patent Office, P.B. 5818 Patentiaan 2 NL – 2280 HV Rijswijk Tel. (+31-70) 340-2040, Tx. 31 651 epo nl, Fax: (+31-70) 340-3016 Holubov, C

2

INTERNATIONAL SEARCH REPORT

Interranal Application No
PCT/IB2004/051966

C.(Continue	etion) DOCUMENTS CONSIDERED TO BE RELEVANT	UMENTS CONSIDERED TO BE RELEVANT			
Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.			
Y		4-8,			
T I	US 5 341 353 A (YOSHIO ET AL) 23 August 1994 (1994-08-23) column 2, line 66 - column 3, line 31 column 9, line 54 - line 65	10-14			
А	US 5 761 164 A (ABE ET AL) 2 June 1998 (1998-06-02) abstract column 2, line 20 - column 3, line 4 column 5; figure 4	1			

2

INTERNATIONAL SEARCH REPORT

Theormation on patent family members

Interranal Application No
PCT/IB2004/051966

Patent document cited in search report		Publication date		Patent family member(s)	Publication date
EP 0478314	Α	01-04-1992	US	5220546 A	15-06-1993
LI 0470011	•		EΡ	0478314 A2	01-04-1992
			JP	5081683 A	02-04-1993
			JP	7077036 B	16-08-1995
US 4471477	Α	11-09-1984	NL	8105347 A	16-06-1983
			ΑU	551544 B2	01-05-1986
			ΑU	9080182 A	02-06-1983
			BE	895140 A1	25-05-1983
			CA	1193724 A1	17-09-1985
			DE	3242785 A1	01-06-1983
			DK	522082 A ,B,	27-05-1983
			ES	8308463 A1	16-11 -19 83
			FR	2517154 A1	27-05- 19 83
			GB	2110434 A ,B	15-06 -1 983
			HK	3086 A	24-01- 19 86
			IT	1153661 B	14-01-1987
			JP	1701476 C	14-10-1992
			JP	3028738 B	22-04-1991
			JP	58100241 A	14-06-1983
US 5341353	Α	23-08-1994	JP	4313818 A	05-11-1992
			DE	69222544 D1	13-11-1997
			DE	69222544 T2	02-04-1998
			EP.	0497550 A1	05-08-1992
US 5761164	Α	02-06-1998	JP	7141666 A	02-06-1995
			JP	3318411 B2	26-08-2002
			JP	7141029 A	02-06-1995
			US	5886963 A	23-03-1999